

# **ABSTRACT**

Novel immunogenic  $\beta$ -propionamido-linked polysaccharide- and N-propionamido-linked oligosaccharide-protein conjugates are provided as well as method of producing the conjugates. The conjugation procedure is simple, rapid, 5 reproducible and applicable to a variety of polysaccharides or oligosaccharides derived from bacterial species, yeast, cancer cells or chemically synthesized. Vaccines and methods of immunization against infection or cancer using the immunogenic  $\beta$ -propionamido-linked polysaccharide- and  $\beta$ -propionamido-linked oligosaccharide-protein conjugates are also disclosed.

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